

ABSTRACT OF THE DISCLOSURE

In a disconnection detecting circuit comprising a control circuit and a sensor circuit, an energizing current is supplied from the control circuit side through an output terminal to the sensor circuit side by energizing a transistor in the sensor circuit side directly in a state where a pull-up resistor or a pull-down resistor having a several $k\Omega$ to several tens $k\Omega$ is provided in the control circuit side. In addition, a current control circuit, a constant-current circuit, a bias circuit and a transistor unit are provided in the sensor circuit side so that, at the occurrence of a disconnection of a power supply line, the impedance of the sensor circuit side is set to be higher by at least one-digit than the resistance value of the pull-up resistor in the control circuit side. This enables detecting a disconnection of connection lines between circuits while preventing an increase in contact resistance of terminal contacts to the utmost.